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(11) Publication number:

59063668 A

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PATENT ABSTRACTS OF JAPAN

(21) Application number: **57173936**

(51) Intl. Cl.: H01M 6/36 H01M 10/39

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(71) Applicant: ASAHI CHEM IND CO LTD

(72) Inventor: SAOTOME ISAO

ARAKAWA TATSUMI FUKUOKA MASAYUKI

(74) Representative:

(54) THERMAL ACTIVATING BATTERY

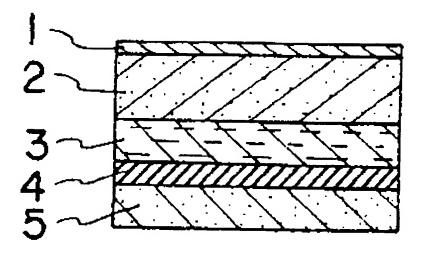
(57) Abstract:

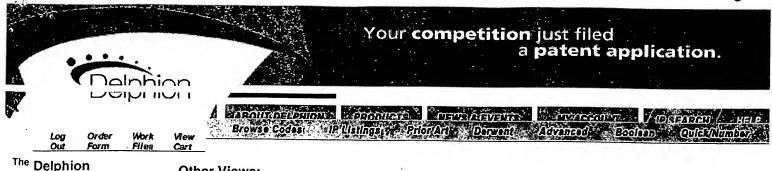
PURPOSE: To provide a battery which outputs no power during storage and outputs power by heating by separating at least either one of a cathode active material, electrolyte, and an anode active material in a battery with a spacer such as paraffine.

CONSTITUTION: Nickel is used as a current collector 1, and paraffine having a melting point of 60~62°C is used as a spacer 4 which separates a negative active mterial 5 from electrolyte 3. Zinc plate is used as the negative active material 5. A positive mix 2 consists of acetylene black, manganese dioxide, and ammonium chloride. Electrolyte consists of ammonium chloride and zinc chloride mixed solution. Thickness of paraffine is 0.5mm or less. This battery outputs no current and voltage at room temperature. When the battery is placed in the air at 80°C for 30sec, it produces current and voltage and after 2 seconds, the battery outputs a power of 1.5V.

100mA/cm2.

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Title:

JP59063668A2: THERMAL ACTIVATING BATTERY

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Issued/Filed Dates:

April 11, 1984 / Oct. 5, 1982

Application Number:

JP1982000173936

IPC Class:

H01M 6/36; H01M 10/39;

Priority Number(s):

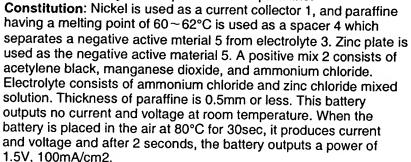
Intelligence Reports

Oct. 5, 1982 JP1982000173936

Abstract:

Purpose: To provide a battery which outputs no power during storage and outputs power by heating by separating at least either one of a cathode active material, electrolyte, and an anode active

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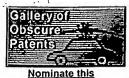
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